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### 1 [Short talks-Specialized section: information visualization & navigation: City lights:](#)

#### [contextual views in minimal space](#)

Polle T. Zellweger, Jock D. Mackinlay, Lance Good, Mark Stefik, Patrick Baudisch

April 2003 **CHI '03 extended abstracts on Human factors in computing systems**

Publisher: ACM Press

Full text available: [pdf\(347.37 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

City Lights are space-efficient fisheye techniques that provide contextual views along the borders of windows and subwindows that describe unseen objects in all directions. We present a family of techniques that use a range of graphical dimensions to depict varied information about unseen objects. City Lights can be used alone or in conjunction with scrollbars, 2D overview+detail, and interaction techniques such as zoomable user interfaces.

**Keywords:** contextual views, fisheye views, focus+context, overview+detail, scrollbars, spatial hypertext, visual information workspaces, zoomable user interfaces

### 2 [The structure of Cedar](#)

#### Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann

 June 1985 **ACM SIGPLAN Notices , ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments**, Volume 20 , 18 Issue 7 , 6

Publisher: ACM Press

Full text available: [pdf\(1.79 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and stability of Cedar. Produced in the Computer Science Laboratory (CS ...

### 3 [An interactive high-level debugger for control-flow optimized programs](#)

#### Polle T. Zellweger

March 1983 **ACM SIGPLAN Notices , ACM SIGSOFT Software Engineering Notes ,**


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### 1 [Document searching, document annotation, and document metadata: Prefiltering](#)



#### [techniques for efficient XML document processing](#)

Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee

 November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**
**Publisher:** ACM Press

 Full text available: [pdf\(442.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document Object Model (DOM) and Simple API for XML (SAX) are the two major programming models for XML document processing. Each, however, has its own efficiency limitation. DOM assumes an in-core representation of XML documents which can be problematic for large documents. SAX needs to scan over the document in a linear manner in order to locate the interesting fragments. Previously, we have used tree-to-table mapping and indexing techniques to help answer structural queries to large, or large c ...

**Keywords:** DOM, SAX, prefiltering, structural query, two-phased XML processing model

### 2 [XML linking](#)



Steven J. DeRose

 December 1999 **ACM Computing Surveys (CSUR)**
**Publisher:** ACM Press

 Full text available: [pdf\(154.81 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 3 [Taxonomy of XML schema languages using formal language theory](#)



Makoto Murata, Dongwon Lee, Murali Mani, Kohsuke Kawaguchi

 November 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 4

**Publisher:** ACM Press

 Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

On the basis of regular tree grammars, we present a formal framework for XML schema languages. This framework helps to describe, compare, and implement such schema languages in a rigorous manner. Our main results are as follows: (1) a simple framework to study three classes of tree languages (local, single-type, and regular); (2) classification and comparison of schema languages (DTD, W3C XML Schema, and RELAX NG) based on


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# 1 [Document searching, document annotation, and document metadata: Prefiltering](#)



## [techniques for efficient XML document processing](#)

Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee

 November 2005 **Proceedings of the 2005 ACM symposium on Document engineering**
**DocEng '05**
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**Keywords:** DOM, SAX, prefiltering, structural query, two-phased XML processing model

# 2 [Annotea: an open RDF infrastructure for shared Web annotations](#)



José Kahan, Marja-Ritta Koivunen

 April 2001 **Proceedings of the 10th international conference on World Wide Web**
**Publisher:** ACM Press

 Full text available: [pdf\(271.46 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
**Keywords:** RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

# 3 [Document searching, document annotation, and document metadata: XML active transformation \(eXAcT\): transforming documents within interactive systems](#)



Olivier Beaudoux

 November 2005 **Proceedings of the 2005 ACM symposium on Document engineering**
**DocEng '05**
**Publisher:** ACM Press

 Full text available: [pdf\(208.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)